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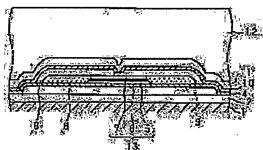
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## (54) MAGNETORESISTIVE EFFECT THIN FILM MAGNETIC HEAD AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To obtain a magnetoresistive effect thin film magnetic head with which an improvement in S/N and reduction of electrical shortening are possible and a process for production of this head.

CONSTITUTION: A three-layered MR film 13 including a soft bias film 5 (0.02  $\mu m$ ), a nonmagnetic separating film 6 (0.01  $\mu m$ ) and an MR film 7 (0.02  $\mu m$ ) is laminated on a lower electromagnetical insulating film 4. Ferromagnetic films 8, 8 (0.05  $\mu m$ ) are formed on both sides thereof. Both ends of the three-layered MR film 13 are tapered and the ends of the ferromagnetic films 8, 8 in contact with the three-layered MR film 13 are reversely tapered. Electrodes 9, 9 are formed in the state of covering the ferromagnetic films 8, 8 exclusive of the central part of the three-layered MR film 13 and an upper shielding film 11 in formed thereon via an upper electromagnetical insulating film 10.



## LEGAL STATUS

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